INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Ref: A20-033CIP	Serial No: 10/813,747						
Applicant: SIMMONS et al.							
Filing Date: 03/29/200	Art Unit:						

United States Patent Documents							
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date	

	Foreign Patent Documents							
Examiner	Publication	Publication	1		Subclass	Translation		
Initial	Number	Date				Yes	No	
MUS	WO 01/04268 A1	January 18, 2001					,	

Examiner Initial	Other Documents (by Publication, Author, Date, Title, Pertinent Pages, etc.)				
Mas	SHI, S. et al (2001) "Comparison of Human Dental Pulp and Bone Marrow Stromal Stem Cells by cDNA Microarray Analysis" <i>Bone</i> , 29(6):532-539.				
	JONES, E.A. et al (2002 "Isolation and Characterization of Bone Marrow Multipotential Mesenchymal Progenitor Cells" <i>Arthritis & Rheumatism</i> , 46(12):3349-60.				
	GRONTHOS, S. et al (2002) "Stem Cell Properties of Human Dental Pulp Stem Cells" J. Dent. Res., 81(8):531-535.				
Mus	Doherty, M.J. et al. (1998) "Vascular Pericytes Express Osteogenic Potential In Vitro and In Vitro" Journal of Bone and Mineral Research, 13:828-838.				

	18				
Examiner:		Date Considered:	10/1	107	
BY A ANIBR 1			4000 0 600		

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered; Include a copy of this form with next communication to the applicant.

<u></u>	744	E							
Form P	ТО-:	1449 Substitute	U.S. Dep				Application Number	10/813,74	7
		2007	Patent a			Office	Filing Date	March 29, 2007	
INEORI (Usase)	MA] eral	FION ISCLOSU shows if necessar	RE STAT	remen	T		First Named Inventor	Paul Simmo	ons
	10EM		,,				Art Unit	1644	
							Examiner Name	M. Belyav	ski
							Attorney Docket No.	75990-	
							Attorney Docket No.	B/JPW/BJA	
7		T		U.S. PAT	ENT DOC	UMENT	rs		
Examiner Initials	Cite No.	Document Nur Number-Kind Cod			tion Date D-YYYY	Na	me of Patentee or Applica	nt of Cited Documer	ıt
			F	OREIGN F	ATENT D	OCUMEN'	TS		
Examiner Initials	Cite No.1	Foreign Pate Country Code ³ Number	nt Documen er ⁴ Kind Coc	t de ^{5 (if known)}	Publicati MM-DD		Name of Pate Applicant of Cite		T ⁶
		<u></u>							
			NON PA	TENT LI	TERATU:	RE DOC	UMENTS		
Examiner Initials	Cite No.1	Include name of the	uthor (in C	APITAL L	ETTERS),	title of th	e article (when appropriat age(s), volume-issue numbe	te), title of the item	T ²
·······	110.	(book, magazine, jour		and/o	r country v	vhere pub	ige(s), volume-issue numb lished.	er(s), publisher, city	
Mu		Axelrad et a Skeletal Repa 38S1:S49-S62	l., New air, In	Techi	nologi Int.	es fo: J. Ca:	r the Enhancem re Injured (20	ent of 07)	
		Bruder et al Bone Repair, Biochem; (199	and Sk	eletal	l Rege:	m Celi nerat:	ls in Bone Dev ion Therapy, J	elopment, . Cell	
MB		Dennis et al., Osteogenesis in Marrow-Derived Mesenchymal Cell Porous Ceramic Composites Transplanted Subcutaneously: Effect of Fibronectin and Laminin on Cell Retention and Rate of Osteogenic Expression, Cell Transplant (1992) 1:23- 32, Abstract							
									<u> </u>
			6_	-					
XAMINER IGNATURE			<u> フー</u>		E CONSIDI		10/1/07		
na not consid	icrea. i	al if citation considered, w nclude copy of this form w irk here if English language	ith next comm	nunication to	conformance applicant.	with MPE Applicant's	EP 609: Draw line through cita s unique citation designation n	tion if not in conforma umber (optional). ² App	nce licant

Applicants: Paul Simmons et al. Serial No.: 10/813,747

Filed: March 29, 2007

Exhibit A

Form P7	ГО-1		partment of Com		Application Number	10/813,747	
		Patent	and Trademark (Office	Filing Date	March 29, 2004	
		TION DISCLOSURE STA sheets if necessary)	TEMENT		First Named Inventor	Paul Simmo et al.	
5	CI MI	silects if ficeessary)			Art Unit	1644	
49					Examiner Name	M. Belyavs	
5 2007 y	<u> </u>		, 		Attorney Docket No.	75990- B/JPW/BJA	
36	/		U.S. PATENT DOC	UMENTS			
Initials	Cite No. ¹	Document Number Number-Kind Code ^{2 (If known)}	Publication Date MM-DD-YYYY	Name	of Patentee or Applican	t of Cited Document	
		2002-0085996	07-2002				
		NON PA	ATENT LITERATU	RE DOCU	MENTS		
Examiner Initials	Cite No.	Include name of the author (in (book, magazine, journal, serial,	CAPITAL LETTERS), symposium, catalog, etc and/or country v	:.) date, page	(s), volume-issue numbe	e), title of the item r(s), publisher, city	
Mus		Simmons and Gronth 408 (abstract)	Simmons and Gronthos (1991) Int'l J. Cell Cloning 9, page				
		Office Action issu U.S. Serial No. 10		2, 2005	in connection	on with	
		Office Action issu Serial No. 10/030,		2005 in	connection w	vith U.S.	
		Final Office Actio with U.S. Serial N	n issued Jan o. 10/030,41	uary 9, 1	2006 in conn	ection	
		Examiner Interview connection with U.					
Nb		Office Action issu Serial No. 10/955,		2007 i	n connection	with U.S.	
			· · · · · · · · · · · · · · · · · · ·				
					112		
XAMINER IGNATURE			DATE CONSID	ERED	10/1/07)	
EXAMINEI	R: Initi	ial if citation considered, whether or no include copy of this form with next con ark here if English language Translation	t citation is in conformanc	e with MPEP	609: Draw line through citat nique citation designation nu	tion if not in conformar umber (optional). ² Appl	

Applicants: Paul Simmons et al. Serial No.: 10/813,747 Filed: March 29, 2004

Exhibit A

Form PTO-1449

JAN 2 2 2007

INFORMATIONALSCLOSUR
(Use several sheets if necessary)

Y.S. Department of Commerce

URE STATEMENT

Application Number	10/813,747
Filing Date	March 29, 2004
First Named Inventor	Paul Simmons et al.
Art Unit	1644
Examiner Name	M. Belyavskyi
Attorney Docket No.	75990-B/JPW/BJA

Examiner Initials	Cite No.1	Document Number Number-Kind Code ^{2 (if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
HIS	US	5,197,985	03-30-1993	Caplan et al.
1	บร	5,226,914	07-13-1993	Caplan et al.
	us	5,486,359	01-23-1996	Caplan et al.
	US	5,591,625	01-07-1997	Gerson et al.
	US	5,811,094	09-22-1998	Caplan
	US	5,827,740	10-27-1998	Pittenger
	US	5,837,539	11-17-1998	Caplan et al.
	US	5,922,597	07-13-1999	Verfaillie et al.
	บร	5,980,887	11-09-1999	Isner et al.
	บร	6,022,540	02-08-2000	Bruder et al.
	US	6,087,113	07-11-2000	Caplan et al.
	US	6,261,549	07-17-2001	Fernandez et al.
	บร	6,322,784	07-17-2001	Pittenger et al.
	US	6,335,195	01-01-2002	Rodgers et al.
	บร	6,387,367	05-14-2002	Davis-Sproul et al.
	ບຣ	6,387,369	05-14-2002	Pittenger et al.
	ບຣ	6,645,727	11-11-2003	Thomas et al.
	US	6,709,864	03-23-2004	Pittenger et al.
	บร	6,875,430	04-05-2005	McIntosh et al.
	US	7,122,178	10-17-2006	Simmons et al.
	US	2004-0107453	06-03-2004	Furcht
	บร	2006-0008452	01-12-2006	Simmons
	US	2005-0158289	07-21-2005	Simmons
MO	US	2005-0281790	12-22-2005	Simmons

FOREIGN PATENT DOCUMENTS Cite Foreign Patent Document Examiner **Publication Date** Name of Patentee or T⁶ Country Code Number Kind Code (If known) Initials No.1 MM-DD-YYYY **Applicant of Cited Document** WO 02-15-2001 EXAMINER 10 DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds of Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Nichol document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English Language Translation is attached.

Applicants: Paul Simmons et al.

Serial No.: 10/813,747 Filed: March 29, 2004

Exhibit A

Form P	ro-1	449	U.S. Departi	ment of Commerce	Application Number	10/813,747	
			Patent and 7	Trademark Office	Filing Date	March 29, 2	
MIDOS:	. # A ==	NAM DIGGE GGE	DE 000 1000	e m > 100	First Named Inventor	Paul Simmor et al.	ns
		ION DISCLOSU		IENT	Art Unit	1644	
(Use sev	erai	sheets if necessary	')		Examiner Name	M. Belyavs	kyi
					Attorney Docket No.	75990-B/JPW	
			NON PATEN	T LITERATURE DOCU	MENTS		
Examiner Initials	Cite No.	Include name of the a (book, magazine, journ	uthor (in CAPIT al, serial, sympo	AL LETTERS), title of the a sium, catalog, etc.) date, page and/or country where publish	rticle (when appropriate (s), volume-issue number), title of the item (s), publisher, city	T ²
HUS		Alberico et a	al. (1987)	Blood 69, page	: 1120		
		Allen, T.D., Lymphoid Diff 38-67	"Microenv erentiati	vironments in Ha lon" CIBA Found.	emopoietic an Symposium 84	d , pages	
		Allen et al.	(1990) Im	munol. Ser. 49,	page 1		
		Allen et al. Immunol. Ser.	(1990) "M 49, page	Marrow Biology a es 1-38	nd Stem Cells	11	
		Anklesaria et	al. (198	9) Blood 74, pa	ge 1144		
		Anklesaria et page 7681	al. (198	7) Proc. Nat'l	Acad. Sci. US	A 84,	
		Bennett et al	. (1991)	J. Cell Sci. 99	, page 131		
]	Bentley (1982) Br. J. Haematol 50, page 1					
	μ	Castro-Malasp Bone Marrow F Progeny" Bloo	ibroblast	. (1980) "Chara Colony-Forming e 289-301	cterization or Cells and The	Human eir	
	1	Castro-Malasp Stimulation of Blood 57, page	f Prolife:	. (1981) "Human ration of Bone N	Megakaryocyte Marrow Fibrob	lasts"	
	1	Clarke, Emer, ceview)	"Mesench	ymal Cells" www.	.stemcell.com	(mini-	
Mb	Į.	Dexter et al. Proliferation Physiol 91	of Haemor	Conditions Control poietic Stem Cel 344	colling the	J. Cell	
XAMINER GNATURE		1/2	5	DATE CONSIDERED	10/1/07		

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). Applicant is to place a checkmark here if English language Translation is attached.

Form P	 ΓΟ-1	449	U.S. Depar	tment of Commerce	Application Number	10/813,747	
				Trademark Office	Filing Date	March 29, 2	
<u> </u>			a./u	autimin Office	First Named Inventor	Paul Simmor	
INFOR	МАТ	ION DISCLOSE	TRE STATE	RE STATEMENT		et al.	
		sheets if necessar			Art Unit	1644	
(036 36)		J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3)		Examiner Name	M. Belyavs	
ļ					Attorney Docket No.	75990-B/JPW	/BJA
			NON PATE	NT LITERATURE DOC	CUMENTS		
Examiner Initials	Cite No.1				he article (when appropriat page(s), volume-issue numbe blished.		T ²
MB		Dexter et al	l. (1984)	Kroc Found. Se	r. 18, pages 5	7-96	
			or Telomer	ic Repeat Ampl	Agarose Minigo		
		Friedensteir	n (1976)]	int'l R. Cytolo	gy 47, page 32'	7	
		Cloning in V	/itro and		isms of Bone Ma ion in Vivo" In es 19-29		
		Friedensteir	et al. (1970) Cell Tis	sue Kinetics 3,	page 393	
		Friedenstein	et al. (1992) Bone and	Mineral 18, pa	ige 199	
		Gronthos, S. 1835	, et al.	(2003) J. Cell	Sci. 116, page	es 1827-	
		Gronthos, S. Human Bone M 84, pages 41	larrow Con	(1994) "The ST tains the Oste	RO-1+ Fraction ogenic Precurso	of Adult ors, Blood	
		Gronthos, S.	, et al.	(1995) Blood 8	5, page 929		
		Hellstrom et	al. (199	9) Development	126, page 2047		
		Huang and Te	rstappen	(1992) Nature :	360, page 745		
		Keating et a	1. (1982)	Nature 298, pa	age 280		
Mp	Į.	Kim et al.	1994) Sci	ence 266, page	2011		
EXAMINER SIGNATURE		1000	٢,	DATE CONSIDERED	10/1/07	•	

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). Applicant is to place a checkmark here if English language Translation is attached.

				
Form PTO-	•	Application Number	10/813,747	2004
1	Patent and Trademark Office	Filing Date	March 29, 2 Paul Simmor	
INFORMA	TION DISCLOSURE STATEMENT	First Named Inventor	et al.	18
1	l sheets if necessary)	Art Unit	1644	
Cose severa	i Sheets it heetssury)	Examiner Name	M. Belyavs	
		Attorney Docket No.	75990-B/JPW	/BJA
	NON PATENT LITERATURE DOCU	JMENTS		
Examiner Cit Initials No.		ge(s), volume-issue numhe	e), title of the item r(s), publisher, city	T ²
MB	Knopse et al. (1966) Blood 28, page	398		
	Knopse et al. (1972) Blood 39, page	331		
	Lichtman (1981) Experimental Hematol	ogy 9, page 39	91	
,	Long (1992) Experimental Hematology	20, page 288		
	MacManus and Weiss (1984) Blood 64,	page 1036		
	McIntyre and Bjornson (1986) Exp. He	matol. 14, pag	je 833	
	Miltenyi et al. (1990) Cytometry 11,	page 231		
	Owen (1985) Bone and Mineral Researc	h 3, page 1		
	Owen and Friedenstein (1988) CIBA For page 42	und. Symposium	136,	
	Perkins and Fleischman (1990) Blood	75, page 620		
	Piersma et al. (1983) Br. J. Haemato	l. 54, page 28	5.	
	Rothstein et al. (1985) Blood 65, pag	ge 744		
	Simmons and Gronthos (1991) Int'l J. 408 (abstract)	Cell Cloning	9, page	
MB	Simmons, P.J., et al. (1994) "Isolatiand Functional Activity of Human Marin Hemopoiesis" Advances in Bone Marin Processing: Pourth Int'l Symposium 38	row Stromal Pr row Purging an	ogenitors d	
EXAMINER SIGNATURE	DATE CONSIDERED	10/1/07		

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). Applicant is to place a checkmark here if English language Translation is attached.

Form PTO-1449		449	U.S. Depar	tment of Commerce	Application Number	10/813,747	
			Patent and Trademark Office		Filing Date	March 29, 2004	
INFORMATION DISCLOSURE STATEMENT First Named Inventor						Paul Simmons et al.	
i .		sheets if nece	Art Unit	1644			
(Ose sev	erai	sifeets if fiece	5541'y)		Examiner Name	M. Belyavs	kyi
			· · · · · · · · · · · · · · · · · · ·		Attorney Docket No.	75990-B/JPW/	
			NON PATE	NT LITERATURE DOCUM	MENTS		. ,
Examiner Cite Initials No.1		I am the state of					T²
MB		Simmons et al. (1987) Nature 328, page 429					
		Simmons a	nd Torok-Sto	orb (1991) Blood	78, page 55		•
		Simmons and Torok-Storb (1991) Blood 78, page 2848					
		Tavassoli 195	and Frieden	stein (1983) Ann	. J. Hematol.	15, page	
		Tavassoli	and Crosby	(1968) Science 1	61, page 54		
		Cytotoxic Hematopoi:	Treatment: esis: Long-T	Long-Term Bone M Stem Cells and M erm Effects of Cl , pages 75-92	icroenvironme	nt in	
		Van Vlasse	elaer et al.	(1994) Blood 84	, page 753		
		Waller et	al. (1995)	Blood 85, page 24	422		
		Weiss (197	76) Anatomica	al Record 186, pa	age 161		
MB	2	Zoltowska 49, pages	et al. (200) 59-61	l) Arch. Immunol.	. Ther. Exp.	(Warsz)	
			10				
XAMINER IGNATURE	1	1		DATE CONSIDERED	10/1/0)		\dashv
	: Initi	nl if citation consider	red, whether or not citation	n is in conformance with MPEP 60	09: Draw line through similar	on if not in another	\dashv

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). ²Applicant is to place a checkmark here if English language Translation is attached.